

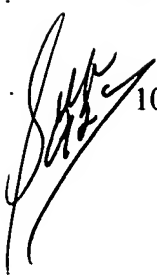
## CLAIMS

I claim:

1. A method for the treatment and prophylaxis of conditions of aging associated with a decreased presence of cell-specific carbonic anhydrase enzymes in the brain, said conditions comprising conditions associated with chronic neurodegenerative conditions including dementia and Alzheimer's disease, which method comprises the administering over an extended period of time in the range of six months to five years, of a pharmaceutically effective, non-toxic amount of a compound that increases the presence of said cell-specific carbonic anhydrase enzymes in the brain.
2. The method of claim 1 wherein said compound is the cell-specific enzyme that is evidencing said decreased presence.
3. The method of claim 2 wherein said compound is synthetically produced cell-specific carbonic anhydrase enzyme.
4. The method of claim 2 wherein said compound is naturally produced cell-specific carbonic anhydrase enzyme.
5. The method of claim 1 wherein said compound is a compound that, when administered to a human patient will promote the natural production of the cell-specific enzyme that is evidencing said decreased presence.
6. The method of claim 1 wherein said administering is by injection.
7. The method of claim 6 wherein said injection is intramuscular.

8. The method of claim 6 wherein said injection is intravenous.

9. The method of claim 1 wherein said administering is by ingestion.

 10. The method of claim 5 wherein said ~~compound~~ is selected from the list composed of: zinc; sex hormones, androgens; non-steroidal anti-inflammatory drugs, including indomethacin; 1,25-dihydroxyvitamin D3; phorbol myristate acetate; cysteamine; and sulfonylamido derivatives of histamine.

11. The method of claim 2 wherein said ~~cell-specific enzyme~~ is selected from the list consisting of CA-I, CA-II, ~~CA-III~~, CA-IV, and CA-VI.

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